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PCT

ERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70) Applicant See Notification of Transmittal of International FOR FURTHER ACTION Preliminary Examination Report (Form PCT/IPEA/416) 0000053226 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP2003/000921 30 January 2003 (30.01.2003) 04 February 2002 (04.02.2002) International Patent Classification (IPC) or national classification and IPC C09B 67/20 Applicant BASF AKTIENGESELLSCHAFT This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of ______ 5 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of ___ 3. This report contains indications relating to the following items: Basis of the report Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain documents cited Certain defects in the international application Certain observations on the international application VIII Date of submission of the demand Date of completion of this report 27 June 2003 (27.06.2003) 14 May 2004 (14.05.2004) Name and mailing address of the IPEA/EP Authorized officer

Telephone No.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Intern	l application No.
P	CT/EP2003/000921

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1.	With		o the elements of the international application:*
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2.	the in	nternationa	o the language, all the elements marked above were available or furnished to this Authority in the language in which had application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language which is:
	H		guage of a translation furnished for the purposes of international search (under Rule 23.1(b)). guage of publication of the international application (under Rule 48.3(b)).
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	L	or 55.3).	•
3.	With	regard f minary ex	to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing:
		containe	ned in the international application in written form.
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			ed subsequently to this Authority in written form.
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		The sta	atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.
			atement that the information recorded in computer readable form is identical to the written sequence listing has
4.		The ame	endments have resulted in the cancellation of:
		☐ tl	the description, pages
			the claims, Nos.
			the drawings, sheets/fig
5.		This repo	ort has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
	ın ını	ncement sh is report (10.17).	heets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
		-	ent sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMERY EXAMINATION REPORT

Internation	pplication No.
PCT/E	03/00921

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1: DE-A-199 05 269

D2: DE-A-198 01 759

D3: US-A-5 282 898

The subject matter of claims 1 to 10 appears to meet the requirements of PCT Article 33(1).

1. The problem addressed by the present application is considered to be that of preparing novel [solid] pigment preparations whose coloristic properties and dispersibility are comparable to those of known liquid preparations, but which require no further stabilization additives, such as agents that prevent drying up, agents for increasing resistance to freezing, thickeners and antiskinning agents, and which are easier to handle.

One solution to this problem is provided by pigment preparations which contain as essential components (A) 60 to 90 wt % of at least one pigment, (B) 10 to 40 wt % of at least one nonionic polyether-based surfactant additive, and (C) 0.1 to 10 wt % of at least one anionic surfactant additive based on sulphonates, sulphates, phosphonates or

phosphates, the total of the weight percentages not exceeding 100 wt %.

The technical problem addressed by D1 is the 1.1 production of pigment preparations whose application properties are comparable or superior to those of liquid preparations and which do not have the disadvantages associated with the agents that prevent drying up or agents for increasing resistance to freezing [e.g. pollution caused by volatile organic solvents; impairment of the rheological behaviour of the preparations by polymeric, non-volatile additives].

Example 3 describes a composition containing a thickener in the form of xanthan gum (0.2 parts by weight) and 1.54 parts by weight of an oxalkylation product (castor oil/40 mol ethyleneoxide units; corresponds to component (B) in the application) and a conversion product of phosphonosuccinic acid ester/polyethylene glycol [molecular weight = 400]/lauryl alcohol; however, the latter is not anionic but is present in the esterified form. Therefore claim 1 of the present application is novel with respect to D1 (presence of a thickener; lack of an anionic surfactant additive (component C)). A person skilled in the art would not see any reason to dispense with the thickener or saponify the ester in order to solve the abovementioned problem. Claim 1 is therefore inventive with respect to D1.

D2 claims aqueous pigment preparations [>= 50 parts water] containing a) at least one pigment, b) at least one condensation product based on A) sulphonated aromatic compounds, B) aldehydes and/or ketones and optionally C) one or more compounds selected from the group comprising non-sulphonated aromatic compounds, urea and urea

derivatives, and c) at least one polyether polyol with a boiling point at normal pressure of 250°C. The current claim 1 is thus novel with respect to D2.

The problem addressed by the present application is that of meeting the need for new [solid] pigment preparations whose coloristic properties and dispersibility are comparable to those of liquid preparations. However, different demands are made in principle on liquid preparations on the one hand and solid preparations on the other [e.g. storage, incorporation into the medium being used, concentration of the components, type of packaging, transportation, etc.]. The technical problem set out in D2 is thus different. Furthermore, the examiner agrees with the applicant that simply drying the liquid preparations does not produce solid pigment preparations having comparable properties when used (page 1, lines 38 to 41, of the description). Therefore claim 1 also appears to be inventive with respect to D2.

2. Consequently claim 1 is novel and inventive with respect to D1 and D2, as are independent method claims 7, 8 and 10.